

H50参数 H50 Parameters			
类别 Category	项目点 Item	数据 Data	性能描述 Performance Description
整机模块 Complete Machine Module	机体设计 Body Design	4旋翼模块化 4-rotor modular	整机主要材料: 航空铝合金+碳纤维; 6轴大轴距折叠式设计 Main material for the machine: 7075Aviation aluminum + carbon fiber; 4 axes large wheelbase folding design
	空机质量 Total Weight	27.5kg	不含电池 no batteries
	整机质量 Total Weight	41Kg	含电池 Including batteries
	螺旋桨尺寸 Propeller size	55 inch	2片折叠桨 2-blade folding propellers
	螺旋桨材料 Propeller material	碳素复合材料 Carbon composite propellers	采用碳纤维和进口尼龙混合压铸而成 Made of carbon fiber and imported nylon through mixed die-casting
	螺旋桨数量 Numbers of Propellers	4组 (8只) 4 groups (8)	单桨下风力达20m/秒, 穿透力更强 Wind speed under single propeller could be up to 20m/s with higher penetration power
	桨叶展开尺寸 Body Dimension	2970*3210*730mm	/
	折叠尺寸 Folding dimension	1030*860*960mm	/
	使用温度范围 Operating temperature range	-5 ~ 40°C	/
遥控模块 Remote control module	遥控器 Remote controller	12通道, 植保机专用一体控 12-channel dedicated all-in-one control	对地视环境情况可遥控距离3Km, 对空遥控距离15Km; 1.内置超远距离强绕射能低延迟的数字图传, 让飞行可视化, 飞行很安全。2.内置智能数传电台, 极大增加了遥控距离和稳定性。3.双天线、双模块设计, 美国进口锁相扩频跳频技术, 最远可以达到10公里, 让植保机告别失控; 4.颠覆性使用霍尔摇杆, 永磁铁传感器, 军工级别; 5.配备可控亮度摄像头, 逆光清晰可见, 配备0W高光效夜航灯, 夜晚清晰可见。6.蓝牙连接+有线双重连接, 稳定无束缚。7.可一次充电了连续工作24小时可全天候作业。8.合法健康100mw功率, 全面认证, 达到农业部补贴标准, 出口标准。 The remote control distance to the ground is within 3Km based on the environment, to the air is within 15Km; 1.with built-in ultra-long-range strong winding digital map module, flight visualization and safer flight. 2.Built-in intelligent data transmission radio, greatly increase the remote control data transmission distance and stability. 3.Dual antenna,dual module design; phase-locked spread spectrum and frequency hopping technology imported from the United States; Can reach up to 10 kilometers;The plant protection drone will no longer be out of control. 4.Subversive use of Hall Rocker; Permanent magnet sensor; Military grade. 5.Bluetooth+wired dual connection, stable and unrestrained. 6.It can work continuously for 24 hours on a single charge. 7.Comprehensive
	无线发射频率 Line emission frequency	2.4G Hz	模块集成式 (数传+电台+蓝牙+图传) Module integration mode (digital transmission + radio + Bluetooth + image transmission)
	屏幕 Screen	5.5寸 5.5 inch	触控液晶显示屏, 分辨率1920*1200, 亮度1200cd/m2 Touch LCD, resolution1920*1200, brightness1200cd/m2
	图传 (FPV) Image transfer (FPV)	高清图传 HD image transfer	根据环境情况可达高清图传1.5Km图传, 配合8W双LED灯实时查看飞机前方状况 According to environmental conditions, HD image transfer of 1.5Km could be realized to check the conditions in front of the aircraft with 8W dual LED lamps in real time
动力信息 Dynamic information	电动机最大输出功率 Maximum output power of the motor	9552W	/
	电调工作电压 Electric regulating Maximum working voltage	78.3V	18S高压工作模式; 降低设备使用的整体电流, 降低电子设备因电流过大的使用风险。 18S High voltage operation mode.Reduce the overall current used by the equipment.Reduce the risk of using electronic equipment due to excessive current.
	电调最大持续电流 Electric regulating Maximum continuous current	≥138A*4	电调几乎所有电子原件为进口产品。 Almost all electronic originals are imported products.
	动力信息反馈 Dynamic information feedback	信息记录 Information recording	电调可记录输入及输出信息, 更好的分析数据 Electric regulation can record input and output information, can analyze the data better.
植保参数 Plant protection parameters	喷洒离作物冠层高度 Spraying height above the crop canopy	3m	推荐高度3-3.5m之间 Recommended height:3-3.5m
	喷头数量 Numbers of nozzles	2只 (离心喷头) 2pcs (Centrifugal nozzle)	采用双水泵控制系统, 减小风场干扰, 喷洒更均匀; 流量输出可达10L/min. Double Pump Control system.Reduce wind field interference.Spraying more evenly.The flow output can reach 10L/min.
	雾滴直径 diameter of droplet	50-200µm	标配喷头, 可根据作业场景更换喷头 Standard nozzle.The nozzle can be replaced according to the operation scene.
	泵数 (叶轮泵) Number of pumps (Impeller pump)	2个 2 pcs	单泵具备7L/min最大流速能力 The maximum velocity of one water pump:10L/min
	喷洒流速 Spraying flow rate (可调节 Adjustable)	1-14L/min	最高流速可达14L/min Tthe maximum velocity can reach 14L/min
	药箱容积 Tank capacity	50L	推荐载药50升 Recommended load 50L
	作业喷幅 Spraying width	9m	/
	作业飞行速度 Operating flight speed (可调节 Adjustable)	1-12m/s (可调节 Adjustable)	根据喷洒任务不同调节 (Adjust according to different spraying tasks)
	亩用药液量 Dosage (可调节 Adjustable)	0.8-10升/亩 (可调节) 0.8-10L/mu (adjustable)	根据喷洒任务不同调节 (Adjust according to different spraying tasks)
	满载飞行时间 Flight time with full load	8min	满载悬停 Fully loaded hover
空载飞行时间 Flight time with no load	26min	空载悬停 Hover without load	
重力传感器 Gravity sensor		智能分析断药点, 减少能耗, 增加能效, 提高电池利用率。 Intelligent analysis of drug break points, reduce energy consumption, increase energy efficiency and improve battery utilization.	
流量计误差 Flowmeter accuracy	≤3%	配置高精度流量传感器, 作业前输入所需亩用量800ml-1.6L (最大支持6L), 作业过程智能控制流量输出, 每亩用药量误差控制在3%以内 Configure high-precision flow sensor, input 12-90L of required dosage per ha before operation (maximum support 6L)	
飞控 Flying control	智能化控制 Intelligent control	全自主飞行 Fully autonomous flight	一键起降、全自主规划作业、仿地飞行、断点续航、飞行数据共享、药量实时控制、电池数据实时精准回传、支持自主避障 One-button takeoff and landing.Fully autonomous planning operation.Autonomous flight according to the change of terrain.Continue the flight from the last disconnect. Share flight data.Real-time monitoring of pesticide dose.Real-time accurate return of battery data.Support autonomous obstacle avoidance.
	RTK	RTK+GNSS双冗余 RTK+GNSS Double redundancy	GNSS+RTK双冗余系统, 航线更精准; 优化抗磁干扰技术, 飞行更安全; 算法优化, 进入RTK模式更快。 RTK+GNSS Double redundancy system.Route can be more accurate; Optimize anti-magnetic interference technology to make flight safer. Algorithm optimization, faster access to RTK mode.
	避障 obstacle avoidance	自主避障 autonomous obstacle avoidance	采用前后毫米波雷达避障 Using front and rear millimeter wave radar to avoid obstacles.
	云网 Cloud network		√
移动端APP Mobile APP		√	
动力配套 Power supporting	电池 Intelligent battery	66.6v,30000mAh, 18S锂电聚合物电池 66.6v,30000mAh, 18S,Lithium polymer battery	智能电池: 采用库仑计原理, 融合电芯倍率性能曲线, 环境温度, 电池老化状况进行精确电量计算。60度可快速充电, 一块电池可播撒4箱肥料320斤。 Intelligent battery: The coulomb meter principle is used to integrate cell multiplier performance curve and ambient temperature, and accurately calculate power based on battery aging.Fast charging is also possible at 60 °C. One battery can spread 4 boxes of fertilizer and 320 kilograms.
	充电器 Charger	7200w	室内3600W慢充, 在外7200W快充, 过温保护, 强制风冷却, 15分钟即可充满 3600W slow charging at home,7200W fast charging outside. Over temperature protection.Heat dissipation through forced air cooling.Full charge in 15 minutes.

